

Title (en)  
ELECTROMAGNETIC ULTRASOUND CONVERTER

Title (de)  
ELEKTROMAGNETISCHER ULTRASCHALLWANDLER

Title (fr)  
TRANSDUCTEUR D'ULTRASONS ELECTROMAGNETIQUE

Publication  
**EP 1572382 A1 20050914 (DE)**

Application  
**EP 03785762 A 20031206**

Priority

- DE 10259891 A 20021220
- EP 0313857 W 20031206

Abstract (en)  
[origin: DE10259891B3] Electromagnetic ultrasonic transducer for couplant-free generation and receipt of ultrasonic waves in the form of linear polarized transverse waves comprises a coil arrangement for generation and receipt of high frequency electromagnetic waves. The coil arrangement has a magnetic flux conductor that is placed in direct contact with the workpiece.

IPC 1-7  
**B06B 1/04**; **G01N 29/24**

IPC 8 full level  
**B06B 1/04** (2006.01); **G01N 29/24** (2006.01); **G01N 29/34** (2006.01)

CPC (source: EP KR US)  
**B06B 1/04** (2013.01 - EP KR US); **G01B 17/00** (2013.01 - KR); **G01N 29/04** (2013.01 - KR); **G01N 29/24** (2013.01 - KR); **G01N 29/2412** (2013.01 - EP US); **G01N 29/348** (2013.01 - EP US); **G01N 2291/0422** (2013.01 - EP US)

Cited by  
DE102008033755B3; EP2146203A3; EP2146203A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2006173341 A1 20060803**; **US 7434467 B2 20081014**; AT E357978 T1 20070415; AU 2003294807 A1 20040722; CA 2510992 A1 20040715; DE 10259891 B3 20040415; DE 50306931 D1 20070510; EP 1572382 A1 20050914; EP 1572382 B1 20070328; JP 2006511173 A 20060330; KR 20050088459 A 20050906; NO 20052971 D0 20050617; NO 20052971 L 20050913; WO 2004058420 A1 20040715

DOCDB simple family (application)  
**US 53981803 A 20031206**; AT 03785762 T 20031206; AU 2003294807 A 20031206; CA 2510992 A 20031206; DE 10259891 A 20021220; DE 50306931 T 20031206; EP 0313857 W 20031206; EP 03785762 A 20031206; JP 2004562703 A 20031206; KR 20057011559 A 20050620; NO 20052971 A 20050617